

## Combat Trauma Registry/Modeling and Simulation

**Purpose:** The ability to provide appropriate medical care in remote and austere environments has made substantial advances in recent years with new training and technologies. Various efforts within DoD are underway to improve the capture and value of information gathered during treatment of combat casualties. However, no systematic database of medical treatment records of casualties has been developed for the United States Marine Corps (USMC).

**Background:** Naval Health Research Center (NHRC), San Diego established the Navy and Marine Corps Combat Trauma Registry (CTR) functional prototype in a theater of operations. The CTR data retrieval process is belabored, largely done by subject matter expert review of patient medical records and manually typing coded data into the database. This is the only functional CTR to include field forward medical treatment data since the Vascular Trauma Registry that was discontinued thirty years ago.



**Description:** NHRC shall perform substantial raw data collection and entry into the CTR database and perform analysis and reporting on casualties treated at USMC medical units during Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF). At the current rate of reporting, the estimate of medical records subject to entry into the CTR database is 2,500.

**Deliverable Products:** NHRC shall provide weekly progress reports via e-mail to the Marine Corps Warfighting Laboratory (MCWL) Project officer beginning the first full week after receipt of funds. These e-mail reports shall include the number of records received identified by medical treatment unit and listed as Battle Injury verses Non-Battle Injury. Additionally, statistically significant variations in wounding patterns, or morbidity, shall be cited in the weekly progress report and followed-up separately on the monthly statistical report.

### Milestones:

TASK	FY06
Perform Analysis	▲▲
Perform Phase II Study	▲▲
Incorporate into experimentation	▲

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